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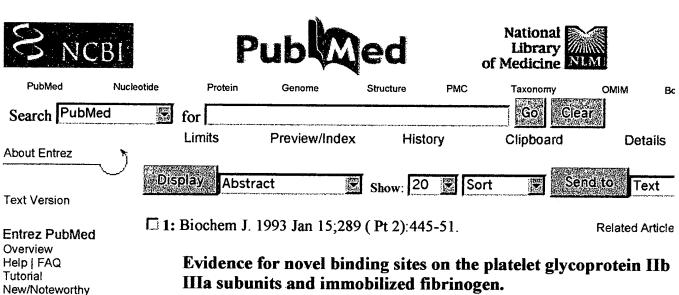
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IIIa subunits and immobilized fibrinogen.

Parise LV, Steiner B, Nannizzi L, Criss AB, Phillips DR.

Gladstone Institute of Cardiovascular Disease, University of California, San Francisco 94141-9100

The present study was designed to examine the interaction of the purified pla glycoprotein IIb-IIIa complex (GP IIb-IIIa or integrin alpha IIb beta 3) and th individual subunits of the complex with immobilized fibringen. Although 1: GP IIb-IIIa binding to fibrinogen immobilized on Sepharose was specific, thi interaction exhibited properties distinct from those of reversible fibrinogen b to platelets: 125I-GP IIb-IIIa binding appeared irreversible, but non-covalent (2+)-independent, and was inhibited only weakly, or not at all, by the anti-(G IIIa) monoclonal antibodies 10E5 and 7E3 and synthetic peptides from know platelet-binding domains of fibrinogen. Reversibly dissociated GP IIb or GP subunits inhibited 125I-GP IIb-IIIa binding to immobilized fibringen and be directly to the fibrinogen. However, these subunits did not bind to peptides d from known platelet-binding domains within the fibrinogen alpha- and gamn chains, although the GP IIb-IIIa complex did. These results show that the complexed form of full-length GP IIb and GP IIIa is required for binding to t synthetic peptides, but not necessarily for binding to immobilized fibrinogen GP IIb-IIIa can bind to immobilized fibringen by a distinct mechanism that appears to involve novel binding sites on each subunit of the GP IIb-IIIa com and on fibrinogen.

PMID: 8424789 [PubMed - indexed for MEDLINE]

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FNAS /1997 94:663-8

CLIN CANCER RES 12/1997 3:2187-90 preliminary observations indicated higher VEGF concentrations in serum sar than in matched plasma samples. We have now demonstrated that this differe due to the presence of VEGF within platelets and its release upon their active during coagulation. In eight healthy volunteers, serum VEGF concentrations ranged from 76 to 854 pg ml(-1) and were significantly higher (P < 0.01) tha matched citrated plasma VEGF concentrations, which ranged from < 9 to 42 (-1). Using platelet-rich plasma, mean (s.d.) platelet VEGF contents of 0.56 ( pg of VEGF 10(-6) platelets were found. Immunocytochemistry demonstrate cytoplasmic presence of VEGF within megakaryocytes and other cell types v the bone marrow. From examination of the effects of blood sample processin circulating VEGF concentrations, it is apparent that for accurate measuremen citrated plasma processed within 1 h of venepuncture should be used. Serum completely unsuitable. The presence of VEGF within platelets has implicatio processes involving platelet and endothelial cell interactions. e.g. wound heal and in tumour metastasis, when platelets adhering to circulating tumour cells release VEGF at points of adhesion to endothelium, leading to hyperpermeat and extravasation of cells.

PMID: 9528841 [PubMed - indexed for MEDLINE]

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Nucleotide

Protein Genome Structure

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Taxonomy

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**1:** Clin Cancer Res. 1997 Dec;3(12 Pt 1):2187-90.

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Platelet: transporter of vascular endothelial growth factor.

Verheul HM, Hoekman K, Luykx-de Bakker S, Eekman CA, Folman CC Broxterman HJ, Pinedo HM.

Department of Medical Oncology, University Hospital "Vrije Universiteit," 1 MB Amsterdam. The Netherlands.

In animal models, growth of tumors and their metastases is dependent on facthat stimulate vessel formation (angiogenesis). Most clinical studies confirm importance of angiogenesis for cancer growth in patients. Recent studies on circulating angiogenic factors in patients have focused on serum vascular endothelial growth factor (VEGF) levels in a variety of cancer types. We me: serum VEGF concentrations and blood counts in 27 breast cancer patients du each of 6 cycles of chemotherapy with doxorubicin and cyclophosphamide supported by granulocyte macrophage colony-stimulating factor. Serum VEC concentrations highly correlated with platelet counts during chemotherapy (r P < 0.01). In particular, during the first treatment cycle, after an initial episoc thrombocytopenia, a strong platelet rebound coincided closely with a serum peak (r = 0.9; P < 0.01). In addition, plasma VEGF concentrations from 15 o cancer patients and 30 healthy volunteers were 5- to 8-fold lower than their corresponding serum VEGF concentrations (P < 0.001). Activation of platele increased the VEGF content 8-10 times. These findings demonstrate that VE released by platelets during serum preparation. In this study, we found evider VEGF transport by platelets, indicating that serum VEGF concentrations refl mainly platelet counts rather than tumor burden in cancer patients, as reporte earlier. Platelets, known to be important for wound healing, have also been reported to contribute to metastasis formation and tumor growth in animal m Indeed, tumors can be regarded as never-healing wounds. Our data suggest the platelets may have a stimulating role on angiogenesis-dependent tumor grow through their function as transporters of VEGF.

LANLET 1996 352:1775

PMID: 9815613 [PubMed - indexed for MEDLINE]

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